



Florida Department of
Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

January 3, 2012

Mr. Stanley M. Kroh
Manager, Land and Water Programs
Tampa Electric Company
P. O. Box 111
Tampa, FL 33601-0111
smkroh@tecoenergy.com

Re: Minor Revision
Tampa Electric Company - Big Bend Station
PA File No. FLA017047-006-IWB/MR
Hillsborough County

Dear Mr. Kroh:

In accordance with Rule 62-620.325(2), Florida Administrative Code (FAC), the Department reviewed your request for a minor permit revision for the above-referenced Industrial Wastewater treatment facility, Permit No. FLA017047, issued on July 10, 2007.

The following permit sections were revised:

1. The Wastewater Treatment Description
The wastewater treatment description was updated to reflect existing conditions and the proposed modification to re-line the reclaimed water storage pond and construct associated appurtenances.
2. Section II. Industrial Wastewater Residual Management Requirements
Condition II.A.6 was added to require notification if coal combustion residuals are encountered during excavation activities.
3. Section VI. Schedules
Schedule Items VI.2.3, 4, and 6 were identified as complete.
Schedule Item VI.2.7 was added for the proposed pond liner replacement.
4. Section VII.B. Specific Conditions Related to Construction
Conditions requiring the submittal of construction completion forms were added.

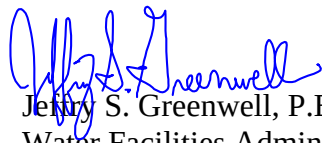
The revised Permit, Discharge Monitoring Reports, and Amendment to the Statement of Basis are enclosed and replace the previous documents in their entirety.

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Please note that a dewatering activity associated with a surface water discharge of produced ground water (or a potential surface water discharge of produced ground water) must be conducted under permit coverage. See Rules 62-621.300(1) and (2), FAC, for additional information at <http://www.dep.state.fl.us/legal/Rules/shared/62-621/62-621.pdf>.

If you have any questions or comments, please contact Harold D. Marin at (813) 632-7600, extension 448, or by e-mail at Harold.Marin@dep.state.fl.us.

Sincerely,



Jeffrey S. Greenwell, P.E.
Water Facilities Administrator
Southwest District

JSG/hm

Enclosures: Industrial Wastewater Facility Permit
Discharge Monitoring Reports (DMRs)
Amended Fact Sheet
Attachment A - Notice of Rights

cc: Allen Hubbard, P.E., FDEP-Tallahassee, allen.hubbard@dep.state.fl.us
Michael Tanski, FDEP-Tallahassee, michael.tanski@dep.state.fl.us
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Terry L. Eastley, Tampa Electric Company, tleastley@tecoenergy.com



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STATE OF FLORIDA INDUSTRIAL WASTEWATER FACILITY PERMIT

PERMITTEE:

Tampa Electric Company - Big Bend Station
P. O. Box 111
Tampa, FL 33601-0111

PERMIT NUMBER:

FLA017047

PA FILE NUMBER:

FLA017047-002-IW1N

ISSUANCE DATE:

July 10, 2007

PA FILE NUMBER:

FLA017047-006-IWB/MR

REVISION DATE:

January 3, 2012

EXPIRATION DATE:

July 09, 2012

RESPONSIBLE AUTHORITY:

Mr. Stanley M. Kroh
Manager, Land and Water Programs
smkroh@tecoenergy.com

FACILITY:

Tampa Electric Company- Big Bend Station
13031 Wyandotte Road
Apollo Beach, FL 33572
Hillsborough County

Latitude: 27° 47' 47.03" N Longitude: 82° 23' 49.07" W

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.) and applicable rules of the Florida Administrative Code (F.A.C.). The above-named permittee is hereby authorized to operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

The Big Bend Power Station is a coal-fired, steam-electric power plant, with a total capacity of 1,822.5 megawatts.

WASTEWATER TREATMENT:

The industrial wastewater generated from this facility consists of plant floor drain water, demineralizer wastes, boiler blowdown and chemical cleaning, cooling tower blowdown, equipment wash water, coal unloading hopper wash water, turbine compressor wash water, and reverse osmosis concentrate.

Contact stormwater is produced from various locations onsite, including the coal pile, coal unloading hopper area, and the bottom ash, fly ash, and FGD gypsum storage areas.

The facility utilizes Hillsborough County reclaimed water, potable water, and the storage and reuse system. Reclaimed water is stored in on-site tanks or routed to a lined reclaimed water pond (also known as the long-term fly ash pond) before initial use.

PERMITTEE: Tampa Electric Company
FACILITY: Big Bend Station

PA FILE No. FLA017047-006-IWB/MR

Industrial wastewater and contact stormwater is routed to a lined storage and reuse system consisting of the north recycle pond, the south recycle pond, the fly ash ponds, the bottom ash pond, the reclaimed water pond, and the coal field. Water from the storage and reuse system is used throughout the plant site for washdown of equipment, flue gas desulfurization, slag sluicing, and prewash gypsum. Water from the recycle ponds is disinfected with sodium hypochlorite, on an as-needed basis, prior to being utilized in the plant.

Wastewater from the Culbreath Bayside Station may be discharged to the storage and reuse system, provided all conditions and requirements of this permit are satisfied.

MODIFICATION:

Under permit revision FLA017047-006, the reclaimed water pond will be re-lined and an underdrain/toe drain piping system will be installed. Additional piping, a wet well, pumps, and appurtenances will be installed to improve control over storage and reuse system. Long-term disposal of solid waste is not authorized in the reclaimed water pond.

EFFLUENT STORAGE AND REUSE:

An existing lined storage and reuse pond system (G-001) is located approximately at Latitude 27° 47' 43.26" N, Longitude 82° 24' 17.03" W.

IN ACCORDANCE WITH: The limitations, monitoring requirements, and other conditions as set forth in Part I through Part VIII, on Pages 3 through 18 of this permit.

I. Effluent Limitations and Monitoring Requirements

A. Surface Water Discharges

1. This section is not applicable to this facility.

B. Underground Injection Control Systems

1. This section is not applicable to this facility.

C. Land Application Systems

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge large and low volume coal combustion wastewater such as plant floor drain water, demineralizer wastes, boiler blowdown and chemical cleaning, cooling tower blowdown, equipment wash water, coal pile runoff, contact stormwater from bottom ash and flyash ponds and reverse osmosis concentrate to Land Application System G-001, a settling and recycle ponds. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with condition I.E.1.:

Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	Report	Report	N/A	Daily	Elapsed Time Meter	FLW-1
pH (SU)	N/A	Report	Report	Monthly	Grab	EFF-1
Specific Conductance (UMHO/CM)	N/A	Report	N/A	Monthly	Grab	EFF-1
Aluminum, Total Recoverable (MG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Nitrogen, Total (MG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Beryllium, Total Recoverable (UG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Fluoride, Total (as F) (MG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Thallium, Total Recoverable (UG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Boron, Total Recoverable (MG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Cyanide, Total Recoverable (UG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Solids, Total Dissolved (TDS) (MG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Arsenic, Total Recoverable (UG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Solids, Total Suspended (MG/L)	Report	Report	N/A	Monthly	Grab	EFF-1
Iron, Total Recoverable (MG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1

Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point
Lead, Total Recoverable (UG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Copper, Total Recoverable (MG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Nickel, Total Recoverable (UG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Selenium, Total Recoverable (UG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Sodium, Total Recoverable (MG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Chloride (as Cl) (MG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Radium 226 + Radium 228, Total (PCI/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Alpha, Gross Particle Activity (PCI/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Sulfate, Total (MG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Molybdenum, Total Recoverable (MG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Manganese, Total Recoverable (MG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Cadmium, Total Recoverable (UG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Zinc, Total Recoverable (MG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1
Antimony, Total Recoverable (UG/L)	N/A	Report	N/A	Monthly	Grab	EFF-1

2. Effluent samples shall be taken at the monitoring site locations listed in permit condition I.C.1 and as described below:

Sample Point	Description of Monitoring Location
FLW-1	The sum of all flows to settling/recycle pond system. The flows are calculated from elapsed time meters on the pumps associated with the feed lines to the recycle pond system.
EFF-1	Effluent from the recycle pond return line

3. The permittee shall sample and analyze the wastewater generated from the boiler chemical cleaning process for the parameters listed in Part V Intake and Effluent Characterization of DEP Form 2CG. Analytical data should be submitted to the Department as soon as it is received. Department's approval is required prior to discharge into the settling/recycle ponds.
4. The following setback distances shall be maintained between the outside toe of the ponds: Potable Water Supply Wells- 500 feet; Property Line 100 feet; Swales, Ditches, Wetlands and other bodies of surface water connected to State waters- 50 feet.

5. The permittee shall sample the effluent for the primary drinking water standards listed in Florida Administrative Code (F.A.C.) 62-550, and submit the analytical results with the application for permit renewal as required per Condition VII.C.1.
6. The permittee shall report to the Department all wastewater discharges from the Culbreath Bayside Station into the settling/recycle pond system. The report should include flows, duration and water quality analyses results for the parameters listed in Section I.C of Permit No. FLA184713, every time wastewater is diverted to the Big Bend Facility. Department's approval is required prior to diverting the flow.
7. A designated elapsed time meter for each pump and a known pumping rate for each pump shall be utilized to measure flow. The meters and the rate for each pump shall be calibrated at least annually.

D. Other Methods of Disposal or Recycling

1. There shall be no discharge of industrial wastewater from this facility to ground or surface waters, except as authorized by this permit.

E. Other Limitations and Monitoring and Reporting Requirements

1. Monitoring requirements under this permit are effective on the first day of the second month following permit issuance. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit, the permittee shall complete and submit to the Southwest District Office Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e., monthly, toxicity, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below.

REPORT Type on DMR	Monitoring Period	DMR Due Date
Monthly or Toxicity	first day of month – last day of month	28 th day of following month
Quarterly	January 1 - March 31 April 1 – June 30 July 1 – September 30 October 1 – December 31	April 28 July 28 October 28 January 28
Semiannual	January 1 – June 30 July 1 – December 31	July 28 January 28
Annual	January 1 – December 31	January 28

DMRs shall be submitted for each required monitoring period including months of no discharge.

The permittee shall make copies of the attached DMR form(s) and shall submit the completed DMR form(s) to the addresses specified below:

Originals to:
Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mails Station 3551
Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Copies to:
Department of Environmental Protection
Industrial Wastewater Program
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Facsimile (813) 632-7671

2. Unless specified otherwise in this permit, all reports and notifications required by this permit, including twenty-four hour notifications, shall be submitted to or reported to the Southwest District Office at the address specified below:

FDEP-Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Phone Number - (813) 632-7600

FAX Number - (813) 632-7662 (All FAX copies shall be followed by original copies.)

3. All reports and other information shall be signed in accordance with requirements of Rule 62-620.305, F.A.C.
4. The permittee shall provide safe access points for obtaining representative samples which are required by this permit.
5. If there is no discharge from the facility on a day scheduled for sampling, the sample shall be collected on the day of the next discharge.
6. Any bypass of the treatment facility which is not included in the monitoring specified in sections I.A, I.B, I.C, or I.D, is to be monitored for flow and all other required parameters. For parameters other than flow, at least one grab sample per day shall be monitored. Daily flow shall be monitored or estimated, as appropriate, to obtain reportable data. All monitoring results shall be reported on the appropriate DMR.

II. Industrial Wastewater Residuals Management Requirements

A. Basic Management Requirements

1. Disposal of sludge in a solid waste management facility permitted by the Department shall be in accordance with the requirements of Chapter 62-701, F.A.C. Storage, transportation, and disposal of sludge/solids characterized as hazardous waste shall be in compliance with requirements of Chapter 62-730, F.A.C.
2. The permittee shall keep records of the amount of sludge disposed, transported, and incinerated. If a person other than the permittee is responsible for sludge transporting, disposal, or incineration, the permittee shall also keep the following records:
 - a. name, address and telephone number of any transporter, and any manifests or bill of lading used;
 - b. name and location of the site of disposal, treatment or incineration;
 - c. name, address, and telephone number of the entity responsible for the disposal, treatment, or incineration site.
3. This permit does not authorize the facility to store, process, or dispose of solid waste except at a permitted solid waste management facility or a facility exempt from permitting under chapter 62-701 F.A.C. *62-701.300 (1) (a) F.A.C.*
4. This permit does not authorize the facility to store, process, or dispose of solid waste in a manner or location that causes air quality standards to be violated or water quality standards or criteria of receiving waters to be violated. *62-701.300 (1) (b) F.A.C.*
5. Storage, process or dispose of solid waste are regulated under Chapter 62-701, except for the activities listed under Chapter 62-701.220 (2) F.A.C. The following exceptions are applicable to this site only.
 - (a) Recovered materials or recovered materials processing facilities, if:

1. A majority of the recovered materials at a facility are demonstrated to be sold, used, or reused within one year;
2. The recovered materials or the products or byproducts of operations that process recovered materials are not discharged, deposited, injected, dumped, spilled, leaked, or placed into or upon any land or water that such products or byproducts or any constituent thereof may enter other lands or be emitted into the air or discharged into any waters, including ground water, or otherwise enter the environment such that a threat of contamination in excess of applicable water quality standards and criteria or air quality standards is caused;
3. The recovered materials are not hazardous wastes; and
4. The facility is registered as required in Section 403.7046, F.S., and Chapter 62-722, F.A.C.;

(b) Industrial byproducts, if

1. A majority of the industrial byproducts are demonstrated to be sold, used, or reused within one year;
 2. The industrial byproducts are not discharged, deposited, injected, dumped, spilled, leaked, or placed into or upon any land or water so that such industrial byproducts or any constituent thereof may enter other lands or be emitted into the air or discharged into any waters, including ground water, or otherwise enter the environment such that a threat of contamination in excess of water quality standards and criteria or air quality standards is caused.
6. In the event that Coal Combustion residuals (CCR's) are encountered during excavation activities, the permittee shall cease excavation and shall immediately (within 24 hours) notify the Department's Solid Waste Section of such occurrence. Excavated CCR shall be removed from the site and disposed of as Class I waste.

III. Ground Water Monitoring Requirements

A. Construction Requirements

1. The permittee shall give at least 72-hours notice to the Department's Southwest District Office, prior to the installation of any monitoring wells detailed in this permit.
2. The QUARTERLY sampling and analysis of all new ground water monitoring wells shall begin upon proper completion of the GWMP well system in accordance with condition III.B.1. The wells shall be sampled for the parameters identified in Permit Condition III.13 and in accordance to the Department's "Standard Operating Procedures For Laboratory Operations and Sample Collection Activities," DEP-SOP-001/01, FS 2200 Ground water Sampling, January 1, 2002.
3. Prior to construction of new ground water monitoring wells, a soil boring shall be made at each new monitoring well location in order to establish the well depth and screen interval.
4. Within thirty days after completion of construction of the last proposed new ground water monitoring wells, a properly scaled figure depicting monitor well locations (active and abandoned) with identification numbers shall be submitted. The figure shall also include (or attached) the monitoring well, top of casing and ground surface elevations referenced to National Geodetic Vertical Datum (NGVD) to the nearest 0.1 foot, along with monitor well location latitude and longitude to the nearest 0.1 second.
5. Within thirty days after completion of construction of the ground water monitoring wells, well completion reports shall be sent to the Industrial Wastewater Section, FDEP Southwest District Office. The information is

to be submitted on the attached form for each well, DEP Form 62-522.900(3), Monitor Well Completion Report.

6. In Districts where applicable, within 30 days of completion of construction of new ground water monitor wells, the Department requests that the permittee submit the following information for each monitor well :
 - a. A copy of the Florida Water Management District (WMD) , State of Florida Permit Application to Construct, Repair, Modify or Abandon a Well, Form 41.10-410(1), and
 - b. A copy of the WMD Well Completion Report, Form 41.10-410(2), 62-610.412(2)(b)
7. Within thirty days after completion of construction of the ground water monitoring wells, the permittee shall sample all new ground water monitoring wells for the Primary Drinking Water parameters included in Rule 62-550, Florida Administrative Code, Public Drinking Water Systems (excluding asbestos, acrylamide dioxin, butachlor and epichlorohydrin), and EPA Methods 601 and 602.

B. Operational Requirements

1. During the period of operation authorized by this permit, the permittee shall continue to sample ground water at the existing monitoring wells identified in item III.B.2 below, in accordance with this permit and the approved ground water monitoring plan prepared in accordance with Rule 62-522.600 F.A.C. Within 90 days of placing the new or modified wastewater facility into operation, or installation of new monitoring wells, whichever occurs sooner, the permittee shall begin sampling ground water at the new monitoring wells identified in item III.B.2 below, in accordance with this permit and the approved ground water monitoring plan.
2. The following monitoring wells shall be sampled for Land Application System G-001:

Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Aquifer Monitored	New or Existing
MWC-9	Recycle Pond Compliance well	Surficial	Existing
MWI-19	Recycle Pond Intermediate well	Surficial	Existing
MWC-31UF	Recycle Pond Compliance well	Upper Floridan	Existing
MWC-45	Recycle Pond Compliance well	Surficial	Existing
MWC-46	Recycle Pond Compliance well	Surficial	New
MWC-47	Recycle Pond Compliance well	Surficial	Existing
MWB-4R	Background MWB-4R replaces MWB-4	Surficial	Existing
MWB-56UF	Background-to be located adjacent to proposed well MWB-39	Upper Floridan	Existing
MWC-16R	Coal Stockpile Compliance Well	Surficial	New
MWC-55	Coal Stockpile Compliance Well	Surficial	Existing

MWB = Background; MWI = Intermediate; MWC = Compliance; MWP = Piezometer

3. The monitor wells specified in Condition III.B.2 shall be sampled for the parameters listed below:

Parameter Name	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Zinc, Total Recoverable	N/A	MG/L	Grab	Quarterly
Cadmium, Total Recoverable	5.0	UG/L	Grab	Quarterly
Chloride (as Cl)	N/A	MG/L	Grab	Quarterly
Lead, Total Recoverable	15.0	UG/L	Grab	Quarterly
Nickel, Total Recoverable	100.0	UG/L	Grab	Quarterly
Nitrogen, Nitrate, Total (as N)	10.0	MG/L	Grab	Quarterly
Nitrogen, Nitrite, Total (as N)	1.0	MG/L	Grab	Quarterly
pH *	Report	SU	In-situ	Quarterly

Parameter Name	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Radium 226 + Radium 228, Total	5.0	PCI/L	Grab	Quarterly
Solids, Total Dissolved (TDS)	N/A	MG/L	Grab	Quarterly
Specific Conductance *	N/A	UMHO S/CM	In-situ	Quarterly
Turbidity *	N/A	NTU	In-situ	Quarterly
Water Level Relative to NGVD	N/A	FEET	In-situ	Quarterly
Arsenic, Total Recoverable	10.0	UG/L	Grab	Quarterly
Alpha, Gross Particle Activity	15.0	PCI/L	Grab	Quarterly
Aluminum, Total Recoverable	N/A	MG/L	Grab	Quarterly
Cyanide, Total (as CN)	200.0	UG/L	N/A	Quarterly
Sodium, Total Recoverable	Report **	MG/L	Grab	Quarterly
Selenium, Total Recoverable	50.0	UG/L	Grab	Quarterly
Fluoride, Total (as F)	4.0	MG/L	Grab	Quarterly
Beryllium, Total Recoverable	4.0	UG/L	Grab	Quarterly
Iron, Total Recoverable	N/A	MG/L	Grab	Quarterly
Manganese , Total Recoverable	N/A	MG/L	Grab	Quarterly
Temperature (C), Water *	N/A	DEG.C	In-situ	Quarterly
Boron, Total Recoverable	N/A	MG/L	Grab	Quarterly
Molybdenum, Total Recoverable	N/A	MG/L	Grab	Quarterly
Thallium, Total Recoverable	2.0	UG/L	Grab	Quarterly
Oxygen, Dissolved (DO)*	N/A	MG/L	In-situ	Quarterly
Sulfate, Total	N/A	MG/L	Grab	Quarterly
Copper, Total Recoverable	N/A	UG/L	Grab	Quarterly

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

** The Department issued on December 21, 2007 a Final Order granting a ground water quality exemption for sodium pursuant to Rule 62-520.500, F.A.C. to Tampa Electric Company-Big Bend Power Station. This exemption is granted for the duration of this permit. The exemption provides relief only from the sodium standard contained in Rule 62-550.320, F.A.C., as referenced in Rule 62-520.420, F.A.C.

- For the land application system for G-001, all ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge for this project shall hydrologically defined and shall extend to the boundary established by the placement of compliance monitor wells as depicted, and to the base of the surficial aquifer.
- The permittee's discharge to ground water shall not cause a violation of water quality standards for ground waters at the boundary of the zone of discharge in accordance with Rules 62-520.400 and 62-520.420, F.A.C.
- The permittee's discharge to ground water shall not cause a violation of the minimum criteria for ground water specified in Rule 62-520.400, F.A.C., within the zone of discharge.
- If the concentration for any constituent listed in Permit Condition III.B.3 in the natural background quality of the ground water is greater than the stated maximum, or in the case of pH is also less than the minimum, the representative background quality shall be the prevailing standard.

8. Water levels shall be recorded prior to evacuating the well for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NGVD allowable) at a precision of plus or minus 0.01 feet.
9. Ground water monitoring wells shall be purged prior to sampling to obtain a representative sample.
10. Analyses shall be conducted on un-filtered samples, unless filtered samples have been approved by the Department as being more representative of ground water conditions.
11. If a monitoring well becomes damaged or cannot be sampled for some reason, the permittee shall notify the Department immediately and a written report shall follow within seven days detailing the circumstances and remedial measures taken or proposed. Repair or replacement of monitoring wells shall be approved in advance by the Department.
12. All piezometers and monitoring wells not part of the approved ground water monitoring plan are to be plugged and abandoned in accordance with Rule 62-532.500(4), F.A.C., unless there is intent for their future use.
13. Ground water monitoring test results shall be submitted on Part D of DEP Form 62-620.910(10) (attached) and shall be submitted to the address specified in I.E.1. Results shall be submitted with the DMR for each month listed in the following schedule.

SAMPLE PERIOD	REPORT DUE DATE
January - March	April 28
April - June	July 28
July - September	October 28
October - December	January 28

IV. Other Land Application Requirements

1. This section is not applicable to this facility.

V. Operation and Maintenance Requirements

A. Treatment and Disposal Facilities

1. The permittee shall ensure that the operation of this facility is as described in the application and supporting documents.
2. The operation of the pollution control facilities described in this permit shall be under the supervision of a person who is qualified by formal training and/or practical experience in the field of water pollution control.
3. The permittee is authorized to discharge a solution of ammonia into the recycle pond. The discharge quantity is not to exceed 10 gallons of ammonia during maintenance activities. This procedure is only authorized during maintenance activities or if a leak/release of anhydrous ammonia occurred during the operation of the emergency ammonia unloading station. Notification to the Department is required if the quantity exceeds 10 gallons of anhydrous ammonia.

B. Record Keeping Requirements:

1. The permittee shall maintain the following records on the site of the permitted facility and make them available for inspection:
 - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a

copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;

- b. Copies of all reports, other than those required in items a. and f. of this section, required by the permit for at least three years from the date the report was prepared, unless otherwise specified by Department rule;
- c. Records of all data, including reports and documents used to complete the application for the permit for at least three years from the date the application was filed, unless otherwise specified by Department rule;
- d. A copy of the current permit;
- e. A copy of any required record drawings;
- f. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date on the logs or schedule.

VI. Schedules

1. A Best Management Practices (BMP) Plan shall be prepared and implemented in accordance with Part VII of this permit and the following schedule:

Action Item		Scheduled Completion Date
1	Continue Implemented BMP Plan	Issuance date of permit revision.
2	Updated and resubmit BMP Plan to include how the facility will be preventing coal spillage.	Within 30 days after the completion of construction

2. The following implementation steps shall be completed in accordance with the following schedule:

Action Item		Scheduled Completion Date
1	The permittee shall sample and analyze the wastewater generated from the boiler chemical cleaning process for the parameters listed in Part V Intake and Effluent Characterization of DEP Form 2CG.	Analytical results should be submitted as soon as it is received. Department's approval is required prior to discharge into the settling/recycle ponds.
2	The permittee shall sample the effluent for the primary drinking water standards listed in Florida Administrative Code (F.A.C.) 62-550.	Submit the results with the application for permit renewal.
3	Construction of the redesign and lined settling and recycle ponds.	As required by the schedule approved in the Remedial Action Plan dated January 24, 2007. (Completed)
4	Monitoring Well Construction: MWC-46	To be constructed prior the fourth ground water monitoring sampling period of 2009 (Completed)
5	Submit to the Department DEP Form 62-620.910(12),	Within thirty (30) days of placing

Action Item		Scheduled Completion Date
	Notification of Completion of Construction.	rail unloading and combustion turbine into operation.
6	Relocate and install MWC-16R	Within ninety (90) days of permit issuance date. (Completed)
7	Provide appropriate documentation as required by permit conditions VII.B.1 & 2 for the long term fly ash/reclaimed water pond liner.	As required by permit conditions VII.B.1 & 2

2. The permittee shall achieve compliance with the other conditions of this permit as follows:

Operational level attained	Issuance Date of permit
----------------------------	-------------------------

3. No later than 14 calendar days following a date identified in the above schedule(s) of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by an identified date, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

VII. Other Specific Conditions

A. Specific Conditions Applicable to All Permits

1. Drawings, plans, documents or specifications submitted by the permittee, not attached hereto, but retained on file at the Southwest District Office, are made a part hereof.
2. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.) F.S., applicable portions of reports to be submitted under this permit, shall be signed and sealed by the professional(s) who prepared them.
3. This permit satisfies Industrial Wastewater program permitting requirements only and does not authorize operation of this facility prior to obtaining any other permits required by local, state or federal agencies.
4. The permittee shall provide verbal notice to the Department as soon as practical after discovery of a sinkhole within an area for the management or application of wastewater or sludge. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department in a written report within 7 days of the sinkhole discovery.

B. Specific Conditions Related to Construction

1. Prior to placing the newly constructed facilities into operation or any individual unit processes into operation, for any purpose other than testing for leaks and equipment operation, the permittee shall complete and submit to the Department DEP Form 62-620.910(12), Notification of Completion of Construction for Wastewater Facilities or Activities.
2. If construction was completed with substantial deviations from the approved design, then within six months after a facility is placed in operation, the permittee shall provide written certification to the Department on Form 62-620.910(13) that record drawings pursuant to Chapter 62-600, F.A.C., are available at the location specified on the form.

C. Duty to Reapply

1. The permittee shall apply for renewal of this permit at least 180 days before the expiration date of the permit using the appropriate forms listed in Rule 62-620.910, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C. The existing permit shall not expire until the Department has taken final action on the application renewal in accordance with the provisions of 62-620.335(3) and (4), F.A.C.

D. Specific Conditions Related to Best Management Practices

1. **BMP Plan:**

For purposes of this part, the terms "pollutant" or "pollutants" refer to any substance listed as toxic under Section 307(a)(1) of the Clean Water Act (the "Act"), oil, as defined in Section 311(a)(1) of the Act, and any substance listed as hazardous under Section 311 of the Act. The permittee shall develop and implement a Best Management Practices (BMP) plan which prevents, or minimizes, the potential for the release of pollutants from ancillary activities, including material storage areas; plant site runoff; in-plant transfer, process and material handling areas; loading and unloading operations; and sludge and waste disposal areas, to the waters of the State through plant site runoff; spillage or leaks; sludge or waste disposal; or drainage from raw material storage.

2. **Implementation:**

The BMP plan shall be developed and implemented in accordance with the schedule contained in Part VI of this permit.

3. **General Requirements:**

The BMP plan shall:

- a. Be documented in narrative form, and shall include any necessary plot plans, drawings or maps.
- b. Establish specific objectives for the control of pollutants.
 - (1) Each facility component or system shall be examined for its potential for causing a release of significant amounts of pollutants to waters of the State due to equipment failure, improper operation, natural phenomena such as rain or snowfall, etc.
 - (2) Where experience indicates a reasonable potential for equipment failure (e.g., a tank overflow or leakage), natural conditions (e.g., precipitation), or other circumstances to result in significant amounts of pollutants reaching surface waters, the plan should include a prediction of the direction, rate of flow, and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.
- c. Establish specific best management practices to meet the objectives identified under paragraph (b) of this subsection, addressing each component or system capable of causing a release of significant amounts of pollutants to the waters of the State, and identifying specific preventative or remedial measures to be implemented.
- d. Be reviewed by plant engineering staff and plant manager.

4. **Documentation:**

The permittee shall maintain the BMP plan at the facility and shall make the plan available to the Department upon request.

5. **BMP Plan Modification:**

The permittee shall amend the BMP plan whenever there is a change in the facility or change in the operation of the facility which materially increases the potential for the ancillary activities to result in a discharge of significant amounts of pollutants.

6. **Modification for Ineffectiveness:**

If the BMP plan proves to be ineffective in achieving the general objective of preventing the release of significant amounts of pollutants to surface waters and the specific objectives and requirements under paragraphs (b) and (c) of item 3, the permit shall be subject to modification pursuant to rule 62-620.325, F.A.C., to incorporate revised BMP requirements.

E. Reopener Clause

1. The permit shall be revised, or alternatively, revoked and reissued in accordance with the provisions contained in Rules 62-620.325 and 62-620.345, F.A.C., if applicable, or to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act (the Act), as amended, if the effluent standards, limitations, or water quality standards so issued or approved:

- a. Contains different conditions or is otherwise more stringent than any condition in the permit/or;
- b. Controls any pollutant not addressed in the permit.

The permit as revised or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

2. The permit may be reopened to adjust effluent limitations or monitoring requirements should future Water Quality Based Effluent Limitation determinations, water quality studies, DEP approved changes in water quality standards, or other information show a need for a different limitation or monitoring requirement.
3. The Department may develop a Total Maximum Daily Load (TMDL) during the life of the permit. Once a TMDL has been established and adopted by rule, the Department shall revise this permit to incorporate the final findings of the TMDL.

VIII. General Conditions

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, F.S. Any permit noncompliance constitutes a violation of Chapter 403, F.S., and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. [62-620.610(1), F.A.C.]
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. [62-620.610(2), F.A.C.]
3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringements of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. [62-620.610(3), F.A.C.]

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. *[62-620.610(4), F.A.C.]*
5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[62-620.610(5), F.A.C.]*
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. *[62-620.610(6), F.A.C.]*
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. *[62-620.610(7), F.A.C.]*
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. *[62-620.610(8), F.A.C.]*
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to
 - a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
 - b. Have access to and copy any records that shall be kept under the conditions of this permit;
 - c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
 - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules. *[62-620.610(9), F.A.C.]*
10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, Florida Statutes, or Rule 62-620.302, F.A.C. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. *[62-620.610(10), F.A.C.]*
11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11), F.A.C.]*
12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided

however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. [62-620.610(12), F.A.C.]

13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. [62-620.610(13), F.A.C.]
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the Department approves the transfer. [62-620.610(14), F.A.C.]
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. [62-620.610(15), F.A.C.]
16. The permittee shall apply for a revision to the Department permit in accordance with Rule 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Wastewater Permitting at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. [62-620.610(16), F.A.C.]
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
 - a. A description of the anticipated noncompliance;
 - b. The period of the anticipated noncompliance, including dates and times; and
 - c. Steps being taken to prevent future occurrence of the noncompliance. [62-620.610(17), F.A.C.]
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate.
 - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.
 - b. If the permittee monitors any contaminate more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
 - c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
 - d. Except as specifically provided in Rule 62-160.300, F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health Environmental Laboratory Certification Program (DOH ELCP). Such certification shall be for the matrix, test method and analyte(s) being measured to comply with this permit. For domestic wastewater facilities, testing for parameters listed in Rule 62-160.300(4), F.A.C., shall be conducted under the direction of a certified operator.
 - e. Field activities including on-site tests and sample collection shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in Chapter 62-160, F.A.C.
 - f. Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220 and 62-160.330, F.A.C. [62-620.610(18), F.A.C.]
19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. [62-620.610(19), F.A.C.]

20. The permittee shall report to the Department's Southwest District Office any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- a. The following shall be included as information which must be reported within 24 hours under this condition:
 - (1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
 - (2) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
 - (4) Any unauthorized discharge to surface or ground waters.
 - b. Oral reports as required by this subsection shall be provided as follows:
 - (1) For unauthorized releases or spills of untreated or treated wastewater reported pursuant to subparagraph a.(4) that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the Department by calling the STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Warning Point:
 - (a) Name, address, and telephone number of person reporting;
 - (b) Name, address, and telephone number of permittee or responsible person for the discharge;
 - (c) Date and time of the discharge and status of discharge (ongoing or ceased);
 - (d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
 - (e) Estimated amount of the discharge;
 - (f) Location or address of the discharge;
 - (g) Source and cause of the discharge;
 - (h) Whether the discharge was contained on-site, and cleanup actions taken to date;
 - (i) Description of area affected by the discharge, including name of water body affected, if any; and
 - (j) Other persons or agencies contacted.
 - (2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.(1) above, shall be provided to Department's Southwest District Office within 24 hours from the time the permittee becomes aware of the circumstances.
 - c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department's Southwest District Office shall waive the written report. *[62-620.610(20), F.A.C.]*
21. The permittee shall report all instances of noncompliance not reported under Conditions VIII.17., 18. and 19. of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Condition VIII.20. of this permit. *[62-620.610(21), F.A.C.]*
22. Bypass Provisions.
- a. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:

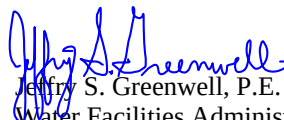
- (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and
 - (3) The permittee submitted notices as required under Condition VIII.22.b. of this permit.
- b. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Condition VIII.20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
- c. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Condition VIII.22 a.(1) through (3) of this permit.
- d. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of Condition VIII.22.a. through c. of this permit. [62-620.610(22), F.A.C.]

23. Upset Provisions

- a. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
- (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;
 - (3) The permittee submitted notice of the upset as required in Condition VIII.20. of this permit; and
 - (4) The permittee complied with any remedial measures required under Condition VIII.5. of this permit.
- b. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the permittee.
- c. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.
[62-620.610(23), F.A.C.]

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION


Jeffrey S. Greenwell, P.E.
Water Facilities Administrator
Southwest District

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551 , 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Tampa Electric Company
MAILING ADDRESS: P. O. Box 111
Tampa, FL 33601-0111

PERMIT NUMBER FLA017047

LIMIT: Final
CLASS SIZE:

REPORT: Monthly
GROUP: Industrial

FACILITY: Tampa Electric Company - Big Bend Station
LOCATION: 13031 Wyandotte Road
Apollo Beach, FL 33572

MONITORING GROUP G-001
NUMBER:
MONITORING GROUP DESC: Land Application

COUNTY: Hillsborough

NO DISCHARGE FROM
SITE:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. FLW-1	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Daily	Elapsed Time Meter
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Min.)	Report (Day.Max.)	SU		Monthly	Grab
Specific Conductance	Sample Measurement										
PARM Code 00095 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	UMHO/CM		Monthly	Grab
Aluminum, Total Recoverable	Sample Measurement										
PARM Code 01104 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	MG/L		Monthly	Grab
Nitrogen, Total	Sample Measurement										
PARM Code 00600 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	MG/L		Monthly	Grab
Beryllium, Total Recoverable	Sample Measurement										
PARM Code 00998 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	UG/L		Monthly	Grab
Fluoride, Total (as F)	Sample Measurement										
PARM Code 00951 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	MG/L		Monthly	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY/MM/DD)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tampa Electric Company - Big Bend Station

MONITORING GROUP

G-001

PERMIT NUMBER: FLA017047

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Thallium, Total Recoverable	Sample Measurement										
PARM Code 00982 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	UG/L		Monthly	Grab
Boron, Total Recoverable	Sample Measurement										
PARM Code 00999 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	MG/L		Monthly	Grab
Cyanide, Total Recoverable	Sample Measurement										
PARM Code 78248 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	UG/L		Monthly	Grab
Solids, Total Dissolved (TDS)	Sample Measurement										
PARM Code 70295 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	MG/L		Monthly	Grab
Arsenic, Total Recoverable	Sample Measurement										
PARM Code 00978 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	UG/L		Monthly	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)		Report (Day.Max.)	MG/L		Monthly	Grab
Iron, Total Recoverable	Sample Measurement										
PARM Code 00980 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	MG/L		Monthly	Grab
Lead, Total Recoverable	Sample Measurement										
PARM Code 01114 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	UG/L		Monthly	Grab
Copper, Total Recoverable	Sample Measurement										
PARM Code 01119 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	MG/L		Monthly	Grab
Nickel, Total Recoverable	Sample Measurement										
PARM Code 01074 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	UG/L		Monthly	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tampa Electric Company - Big Bend Station

MONITORING GROUP

G-001

PERMIT NUMBER: FLA017047

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Selenium, Total Recoverable	Sample Measurement										
PARM Code 00981 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	UG/L		Monthly	Grab
Sodium, Total Recoverable	Sample Measurement										
PARM Code 00923 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	MG/L		Monthly	Grab
Chloride (as Cl)	Sample Measurement										
PARM Code 00940 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	MG/L		Monthly	Grab
Radium 226 + Radium 228, Total	Sample Measurement										
PARM Code 11503 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	PCI/L		Monthly	Grab
Alpha, Gross Particle Activity	Sample Measurement										
PARM Code 80045 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	PCI/L		Monthly	Grab
Sulfate, Total	Sample Measurement										
PARM Code 00945 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	MG/L		Monthly	Grab
Molybdenum, Total Recoverable	Sample Measurement										
PARM Code 01129 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	MG/L		Monthly	Grab
Manganese, Total Recoverable	Sample Measurement										
PARM Code 11123 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	MG/L		Monthly	Grab
Cadmium, Total Recoverable	Sample Measurement										
PARM Code 01113 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	UG/L		Monthly	Grab
Zinc, Total Recoverable	Sample Measurement										
PARM Code 01094 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	MG/L		Monthly	Grab
Antimony, Total Recoverable	Sample Measurement										
PARM Code 01268 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	UG/L		Monthly	Grab
	Sample Measurement										

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-9
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		100.0	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10.0	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1.0	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		5.0	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		10.0	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATION (Reference all attachments here):

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-9
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		15.0	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		200.0	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		4.0	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		4.0	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWI-19
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		Report	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		Report	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		Report	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		Report	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		Report	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		Report	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Recycle Pond Intermediate well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWI-19
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		Report	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		Report	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		Report	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		Report	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		Report	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		Report	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Recycle Pond Intermediate well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWB-4R
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		Report	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		Report	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		Report	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		Report	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		Report	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		Report	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Recycle Pond Background well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWB-4R
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		Report	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		Report	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		Report	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		Report	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		Report	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		Report	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Recycle Pond Background well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWB-56UF
 Well Type:
 Ground Water Class:

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		Report	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		Report	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		Report	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		Report	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		Report	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		Report	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Recycle Pond Background well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWB-56UF
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		Report	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		Report	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		Report	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		Report	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		Report	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		Report	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Recycle Pond Background well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____

To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-31UF
 Well Type:
 Ground Water Class:

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		100.0	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10.0	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1.0	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		5.0	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		10.0	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-31UF
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		15.0	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		200.0	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		4.0	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		4.0	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company- Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-45
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		100.0	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10.0	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1.0	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		5.0	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		10.0	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-45
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		15.0	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		200.0	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		4.0	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		4.0	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-46
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		100.0	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10.0	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1.0	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		5.0	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		10.0	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-46
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		15.0	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		200.0	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		4.0	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		4.0	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-47
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		100.0	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10.0	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1.0	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		5.0	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		10.0	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-47
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		15.0	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		200.0	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		4.0	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		4.0	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station

Permit Number: FLA017047

County: Hillsborough

Monitoring Period

From: _____

To: _____

Date Sample Obtained: _____

Monitoring Location Site Number: MWC-16R

Well Type:

Ground Water Class:

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARAM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		100.0	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10.0	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1.0	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		5.0	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		10.0	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP–SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Coal stockpile Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-16R
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		15.0	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		200.0	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		4.0	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		4.0	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Coal Stockpile Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-55
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		100.0	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10.0	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1.0	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		5.0	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		10.0	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Coal Stockpile Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - FINAL LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-55
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		15.0	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		200.0	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		4.0	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		4.0	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Coal Stockpile Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions as well as the SUPPLEMENTAL INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28th of the month following the monitoring period. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data.

When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used:

1. Results greater than or equal to the PQL shall be reported as the measured quantity.
2. Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
3. Results less than the MDL shall be reported by entering a less than sign ("<") followed by the laboratory's MDL value, e.g. < 0.001. A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units.

No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

Add the results to get the Total and divide by the number of days in the month to get the Monthly Average.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that.

Detection Limits: Record the detection limits of the analytical methods used.

Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

Flow (Limited Wet Weather Discharge): Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Flow (Upstream): Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

Actual Stream Dilution Ratio: To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.

No. of Days the SDF > Stream Dilution Ratio: For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

GROUNDWATER MONITORING REPORT - PART D – INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-9
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		Report	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10.0	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1.0	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		Report	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		Report	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP–SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATION (Reference all attachments here):

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____

To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-9
 Well Type:
 Ground Water Class:

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		Report	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		200.0	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		Report	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		Report	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWI-19
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		Report	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		Report	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		Report	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		Report	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		Report	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		Report	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Recycle Pond Intermediate well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWI-19
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		Report	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		Report	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		Report	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		Report	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		Report	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		Report	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Recycle Pond Intermediate well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____

To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWB-4R
 Well Type:
 Ground Water Class:

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		Report	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		Report	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		Report	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		Report	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		Report	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		Report	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP–SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Recycle Pond Background well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____

To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWB-4R
 Well Type:
 Ground Water Class:

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARAM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		Report	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		Report	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		Report	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		Report	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		Report	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		Report	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Recycle Pond Background well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWB-56UF
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		Report	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		Report	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		Report	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		Report	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		Report	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		Report	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Recycle Pond Background well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____

To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWB-56UF
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		Report	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		Report	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		Report	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		Report	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		Report	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		Report	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Recycle Pond Background well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-31UF
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		Report	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10.0	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1.0	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		Report	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		Report	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-31UF
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		Report	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		200.0	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		Report	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		Report	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____

To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-45
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		Report	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10.0	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1.0	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		Report	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		Report	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____

To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-45
 Well Type:
 Ground Water Class:

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		Report	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		200.0	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		Report	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		Report	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-46
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		Report	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10.0	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1.0	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		Report	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		Report	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-46
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		Report	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		200.0	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		Report	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		Report	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____

To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-47
 Well Type:
 Ground Water Class:

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		Report	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10.0	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1.0	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		Report	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		Report	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-47
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		Report	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		200.0	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		Report	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		Report	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Recycle Pond Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____

To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-16R
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		Report	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10.0	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1.0	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		Report	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		Report	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Coal stockpile Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____

To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-16R
 Well Type:
 Ground Water Class:

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		Report	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		200.0	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		Report	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		Report	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Coal Stockpile Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____

To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-55
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Zinc, Total Recoverable	01094		Report	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	UG/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		Report	UG/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10.0	MG/L	Grab	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1.0	MG/L	Grab	Quarterly				
pH *	00400		Report	SU	In-situ	Quarterly				
Radium 226 + Radium 228, Total	11503		Report	PCI/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Grab	Quarterly				
Specific Conductance *	00095		Report	UMHO/CM	Grab	Quarterly				
Turbidity *	00070		Report	NTU	Grab	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Grab	Quarterly				
Arsenic, Total Recoverable	00978		Report	UG/L	Grab	Quarterly				

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

Description: Coal Stockpile Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D - INTERIM LIMITS

Facility Name: Tampa Electric Company - Big Bend Station
 Permit Number: FLA017047
 County: Hillsborough
 Monitoring Period

From: _____

To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-55
 Well Type:
 Ground Water Class:

Was the well pumped before sampling? ☐ Yes ☐ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Alpha, Gross Particle Activity	80045		Report	PCI/L	Grab	Quarterly				
Aluminum, Total Recoverable	01104		Report	MG/L	Grab	Quarterly				
Cyanide, Total (as CN)	00720		200.0	UG/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	MG/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	UG/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		Report	MG/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		Report	UG/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	MG/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	MG/L	Grab	Quarterly				
Temperature (C), Water *	00010		Report	DEG.C	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	MG/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129		Report	MG/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	UG/L	Grab	Quarterly				
Oxygen, Dissolved (DO) *	00300		Report	MG/L	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Copper, Total Recoverable	01119		Report	UG/L	Grab	Quarterly				

Description: Coal Stockpile Compliance well

COMMENTS AND EXPLANATION (Reference all attachments here):

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions as well as the SUPPLEMENTAL INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28th of the month following the monitoring period. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data.

When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used:

1. Results greater than or equal to the PQL shall be reported as the measured quantity.
2. Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
3. Results less than the MDL shall be reported by entering a less than sign ("<") followed by the laboratory's MDL value, e.g. < 0.001. A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units.

No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

Add the results to get the Total and divide by the number of days in the month to get the Monthly Average.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that.

Detection Limits: Record the detection limits of the analytical methods used.

Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

Flow (Limited Wet Weather Discharge): Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Flow (Upstream): Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

Actual Stream Dilution Ratio: To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.

No. of Days the SDF > Stream Dilution Ratio: For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

**AMENDMENT TO THE STATEMENT OF BASIS
FOR
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
INDUSTRIAL WASTEWATER FACILITY PERMIT**

APPLICATION NUMBER: FLA017047-006-IWB/MR

APPLICATION DATE: August 17, 2011

PERMIT NUMBER: FLA017047

PERMIT WRITER: Harold D. Marin

NAME OF PERMITTEE: Tampa Electric Company - Big Bend Station

FACILITY NAME: Tampa Electric Company - Big Bend Station

FACILITY LOCATION: 13031 Wyandotte Road, Apollo Beach, FL 33572
Hillsborough County

FACILITY DESCRIPTION:

The Big Bend Power Station is a coal-fired, steam-electric power plant, with a total capacity of 1,822.5 megawatts.

REQUESTED CHANGES:

The permittee requested a minor permit revision to replace the liner for the reclaimed water pond (long term fly ash pond) and install piping, a wet well, pumps, and appurtenances to increase control over the storage and reuse system.

CHANGES TO THE PERMIT

- (1) The Wastewater Treatment description was updated to accurately reflect existing conditions and the proposed modification:

WASTEWATER TREATMENT:

The industrial wastewater generated from this facility consists of plant floor drain water, demineralizer wastes, boiler blowdown and chemical cleaning, cooling tower blowdown, equipment wash water, coal unloading hopper wash water, turbine compressor wash water, and reverse osmosis concentrate.

Contact stormwater is produced from various locations onsite, including the coal pile, coal unloading hopper area, and the bottom ash, fly ash, and FGD gypsum storage areas.

The facility utilizes Hillsborough County reclaimed water, potable water, and the storage and reuse system. Reclaimed water is stored in on-site tanks or routed to a lined reclaimed water pond (also known as the long-term fly ash pond) before initial use.

Industrial wastewater and contact stormwater is routed to a lined storage and reuse system consisting of the north recycle pond, the south recycle pond, the fly ash ponds, the bottom ash pond, the reclaimed water pond, and the coal field. Water from the storage and reuse system is used throughout the plant site for washdown of equipment, flue

gas desulfurization, slag sluicing, and prewash gypsum. Water from the recycle ponds is disinfected with sodium hypochlorite, on an as-needed basis, prior to being utilized in the plant.

Wastewater from the Culbreath Bayside Station may be discharged to the storage and reuse system, provided all conditions and requirements of this permit are satisfied.

MODIFICATION:

Under permit revision FLA017047-006, the reclaimed water pond will be re-lined and an underdrain/toe drain piping system will be installed. Additional piping, a wet well, pumps, and appurtenances will be installed to improve control over storage and reuse system. Long-term disposal of solid waste is not authorized in the reclaimed water pond.

EFFLUENT STORAGE AND REUSE:

An existing lined storage and reuse pond system (G-001) is located approximately at Latitude 27° 47' 43.26" N, Longitude 82° 24' 17.03" W.

- (2) Condition II.A.6 was added, per the request of the Solid Waste Section:

In the event that Coal Combustion residuals (CCR's) are encountered during excavation activities, the permittee shall cease excavation and shall immediately (within 24 hours) notify the Department's Solid Waste Section of such occurrence. Excavated CCR shall be removed from the site and disposed of as Class I waste.

- (3) Schedule:

Schedule Items VI.2.3, 4, and 6 were identified as complete.

Schedule Item VI.2.7 and 8 were added for the proposed pond liner replacement construction. Accordingly, conditions requiring the submittal of construction completion forms were added to Section VII.B.

Action Item		Scheduled Completion Date
	The permittee shall sample and analyze the wastewater generated from the boiler chemical cleaning process for the parameters listed in Part V Intake and Effluent Characterization of DEP Form 2CG.	Analytical results should be submitted as soon as it is received. Department's approval is required prior to discharge into the settling/recycle ponds.
2	The permittee shall sample the effluent for the primary drinking water standards listed in Florida Administrative Code (F.A.C.) 62-550.	Submit the results with the application for permit renewal.
3	Construction of the redesign and lined settling and recycle ponds.	As required by the schedule approved in the Remedial Action Plan dated January 24, 2007. (Completed)
4	Monitoring Well Construction: MWC-46	To be constructed prior the fourth ground water monitoring sampling period of 2009 (Completed)
5	Submit to the Department DEP Form 62-620.910(12),	Within thirty (30) days of placing

PERMITTEE: Tampa Electric Company
FACILITY: Tampa Electric Company - Big Bend Station

PA FILE No. FLA017047-006-IWB/MR

Action Item		Scheduled Completion Date
	Notification of Completion of Construction.	rail unloading and combustion turbine into operation.
6	Relocate and install MWC-16R	Within ninety (90) days of permit issuance date. (Completed)
7	Provide appropriate documentation as required by Permit Conditions VII.B.1 & 2 for the long term fly ash/reclaimed water pond liner.	As required by Permit Conditions VII.B.1 & 2

CHANGES TO THE DMR

No Changes has been made

PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Proposed Notice of Permit Issuance

December 2011

DEP CONTACT

Additional information concerning the permit and proposed schedule for permit issuance may be obtained during normal business hours from:

Harold Marin, Engineer II
FDEP - Southwest District Office
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
Telephone No.: (813) 632-7600, ext. 448

ATTACHMENT A

NOTICE OF RIGHTS

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Petitions by the applicant or any of the parties listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the notice or within fourteen days of receipt of the written notice, whichever occurs first.

Under Section 120.60(3), Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, Florida Statutes. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

- a. The name, address, and telephone number of each petitioner; the Department permit identification number and the county in which the subject matter or activity is located;
- b. A statement of how and when each petitioner received notice of the Department action;
- c. A statement of how each petitioner's substantial interests are affected by the Department action;
- d. A statement of the material facts disputed by the petitioner, if any;
- e. A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
- f. A statement of which rules or statutes the petitioner contends require reversal or modification of the Department action; and
- g. A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in

this notice. Persons whose substantial interests will be affected by any such final decision of the Department have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation under Section 120.573, Florida Statutes, is not available for this proceeding.

This action is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above. Upon the timely filing of a petition this order will not be effective until further order of the Department.

Any party to this order has the right to seek judicial review of the order under Section 120.68 of the Florida Statutes, by the filing of a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The Notice of Appeal must be filed within 30 days from the date when the final order is filed with the Clerk of the Department.



**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

BOB MARTINEZ CENTER
2600 BLAIRSTONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

RICK SCOTT
GOVERNOR

JENNIFER CARROLL
LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

ELECTRONIC CORRESPONDENCE

December 7, 2012

Mr. Stanley M. Kroh
Manager, Land and Water Program
Environmental Health & Safety
Tampa Electric Company
Post Office Box 111
Tampa, Florida 33601-0111

RE: Final Order Granting a Water Quality Criteria Exemption Renewal to the Tampa Electric Company, Big Bend Power Station, Apollo Beach, Hillsborough County, Florida

Dear Mr. Kroh:

Enclosed is a signed copy of the Department's Final Order granting renewal of a water quality criteria exemption to the Tampa Electric Company's Big Bend Power Station, Facility I.D. Number FLA017047, Apollo Beach, Hillsborough County, Florida. The exemption is from the ground water standard for sodium associated with industrial wastewater discharge to ground water pursuant to Rule 62-520.500, Florida Administrative Code.

Please call me at 850\245-8648 if you have any questions or need assistance.

Sincerely,

David C. James
Professional Geologist
Ground Water Regulatory Program

DCJ/

Enclosure: (1)

cc: Yanisa Angulo/FDEP Tampa
Mauryn McDonald/FDEP Tampa
Amanda Bush/FDEP

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

In re:
Petition for a Class G-II Groundwater
Quality Criteria Exemption
Tampa Electric Company
Big Bend Power Station
Apollo Beach, Florida

OGC File No. 12-1366
Hillsborough County

**FINAL ORDER
GRANTING A WATER QUALITY CRITERIA EXEMPTION**

The Department of Environmental Protection hereby issues a Final Order granting renewal of a water quality criteria exemption for sodium pursuant to Rule 62-520.500, Florida Administrative Code (F.A.C.), to the Tampa Electric Company's (TEC) Big Bend Power Station, Apollo Beach, Hillsborough County, Florida, as set forth below.

BACKGROUND AND FINDING OF FACTS

1. On April 12, 2012, the Department received a petition from the TEC for renewal of a water quality criteria exemption associated with permitted industrial wastewater discharge to Class G-II groundwater pursuant to Rule 62-520.500, F.A.C. The installation is the Big Bend Power Station located in Hillsborough County at 13031 Wyandotte Road, Apollo Beach, Florida.
2. The Big Bend Power Station is authorized to treat and discharge industrial wastewater to groundwater under Permit Number FLA017047. Groundwater is monitored in accordance with the approved facility groundwater monitoring plan as

required by the Big Bend Power Station industrial wastewater Permit Number FLA017047.

3. The TEC petition requests an exemption from the groundwater standards contained in Rule 62-520.420(1), F.A.C., which are the same as the drinking water standards in Rules 62-550.310, F.A.C. Specifically, the petition requests an exemption from the groundwater standard for sodium. The sodium groundwater standard is 160 mg/L, and is a health-based primary drinking water standard.

4. An alternative groundwater concentration for sodium was not requested in the petition and is not being proposed because the sodium levels in the receiving brackish and Class III marine surface waters are up to 10 times greater than the sodium levels in the discharge to groundwater.

5. The Department has reviewed TEC's petition for renewal of a water quality criteria exemption at the Big Bend Power Station and has determined that the petition meets the six criteria for issuance of an exemption pursuant to Rule 62-520.500(1), F.A.C.

6. On September 7, 2012, the Department signed and issued an Intent to Grant for renewal of the water quality criteria exemption for sodium to the Tec Big Bend Power Station under Rule 62-520.500, F.A.C. A copy of the Intent to Grant is attached as Exhibit I.

7. On October 17, 2012, the Department sent a cover letter and the executed Notice of Intent to Grant, notifying the Petitioner of the Department's proposed agency

action and advising the Petitioner of the right to a hearing pursuant to sections 120.569 and 120.57, F.S.

8. As required by the Intent to Grant, pursuant to section 403.815, F.S., and Rules 62-110.106(7) and 62-520.500(3), F.A.C., the Petitioner published notice on November 2, 2012, in the Tampa Tribune, a daily newspaper published in Hillsborough County, Florida, with general circulation in the facility area. A copy of the newspaper notice and proof of publication is attached as Exhibit II.

9. The Department published notice of the Intent to Grant on September 21, 2012, in the *Florida Administrative Weekly* informing the public of the Department's intended action and offering an opportunity for hearing pursuant to sections 120.569 and 120.57, F.S. A copy of the notice is attached as Exhibit III.

10. The Petitioner and interested parties having been advised of their rights under Chapter 120, F.S., and having failed or declined to file a petition pursuant to sections 120.569 and 120.57, F.S., are hereby deemed to have waived those rights.

IT IS THEREFORE ORDERED that the TEC Big Bend Power Station petition for an exemption from the drinking water standard for sodium set forth in Rules 62-550.310 and 62-550.320, F. A.C., for the groundwater specified herein is hereby GRANTED, subject to these conditions:

(a) The groundwater quality exemption renewal is being granted in part based on the Department's understanding that the petitioner's industrial wastewater discharge will not present a danger to the public health, safety or welfare and will not result in any discernable environmental, social or economic effects.

(b) The groundwater quality criteria exemption renewal is granted and will be incorporated into the Big Bend Power Station industrial wastewater Permit Number FLA017047 by revision and approved for the duration of said permit upon issuance. The exemption extends only to groundwater elements of the Big Bend Power Station industrial wastewater Permit Number FLA017047. The exemption will not affect NPDES discharge under the Clean Water Act to surface waters of the state, nor will it alter any permit conditions related to surface waters.

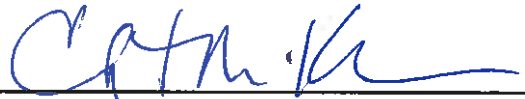
(c) The exemption provides relief only from the sodium standard contained in Rule 62-550.310, F.A.C., as referenced in Rule 62-520.420, F.A.C. All other groundwater quality standards, and the minimum criteria contained in Rule 62-520.400, F.A.C., apply to this project.

(d) The permittee shall monitor water quality in accordance with the specific conditions of the Big Bend Power Station industrial wastewater Permit Number FLA017047, and the approved groundwater monitor plan.

A party to this order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

DONE AND ORDERED this 4 day of December 2012, in Tallahassee,
Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Christine M. Klena, Deputy Director
Division of Water Resource Management
State of Florida Department of
Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

FILED ON THIS DATE PURSUANT TO § 120.52,
FLORIDA STATUTES, WITH THE DESIGNATED
DEPARTMENT CLERK, RECEIPT OF WHICH IS
HEREBY ACKNOWLEDGED.



CLERK

12-07-12

DATE

Copies furnished to:

Amanda Bush FDEP Tallahassee
Mauryn McDonald FDEP SW District

Enclosures: (3)